Form PTO-1449

## ept. of Commerce PATENT & TRADEMARK OFFICE

ATTY DOCKET NO. D/A2177

APPLICATION NO. 10/235,109

INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

APPLICANT Marcel P. Breton et al.

FILING DATE 9/4/2002

GROUP ART UNIT 2861

	••	U.S. PATENT DO	CUMENTS		
EXAMINER INITIAL :	DOCUMENT NUMBER PUBLICATION DATE		NAME OF PATENTEE	CLASS	SUB · CLASS
M	5,496,879	3/5/1996	Griebel et al.	524	320
W	4,889,560	12/26/1989	Jaeger et al.	106	27
. M.	4,889,761	12/26/1989	Titterington et al.	428	195
W	5,372,852	12/13/1994	Titterington et al.	427	288
·M	5,221,335	6/22/1993	Williams et al.	106	23A
M	5,621,022	4/15/1997	Jaeger et al.	523	161
W	3,653,932	4/4/1972	Berry et al.	106	22
M	4,390,369	6/28/1983	Merritt et al.	106	, 31
M	4,484,948	11/27/1984	Merritt et al.	106	31
M	4,684,956	8/4/1987	Ball	346	1.1
M	4,851,045	7/25/1989	Taniguchi	106	31
W	5,006,170	4/9/1991	Schwarz et al.	106	20
W	5,151,120	9/29/1992	You et al.	106	27
M	5,122,187	6/16/1992	Schwarz et al.	106	25
M	5,021,802	6/4/1991	Allred	346	1.1
W	5,180,425	1/19/1993	Matrick et al.	106	22
M	5,531,817	7/2/1996	Shields et al.	106	22
IM	5,476,540	12/19/1995	Shields et al.	106	20
M	5,389,958	2/14/1995	Bui et al.	347	103
w	5,554,212	9/10/1996	Bui et al.	106	20
W	5,462,591	10/31/1995	Karandikar et al.	106	20
W	5,099,256	3/24/1992	Anderson	346	1,1
w)	4,538,156	8/27/1985	Durkee et al.	346	21
W	5,761,597	6/2/1998	Smith et al.	399	339
wit	5,195,430	3/23/1993	Rise	100	168
W	4,889,761	12/26/1989	Titterington et al.	428	195
W	4,745,420	5/17/1988	Gerstenmaier	346	140
(M)	6,320,018	11/20/2001	Sijbesma et al.	528	310

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U.S.	PATE	NT DO	CUMENTS:	

FILING DATE

EXAMINER		PUBLICATION				
INITIAL	DOCUMENT NUMBER	DATE	NAME OF PATENTEE	CLASS	SUB	
M	5,892,116	4/6/1999	Weiss et al. 564		281	
W	5,298,618	3/29/1994	Speranza et al.	540	454	
W	2,703,808	3/8/1955	Buchman	260	456	
M	4,790,961	12/13/1988	Weiss et al.	260	376	

## FOREIGN PATENT DOCUMENTS

	COUNTRY	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	TRANSLATION Y/N
M	EPO	0 187 352	7/16/1986	Howtek, Inc.	Υ
W	EPO	0 206 286	12/30/1986	Howtek, Inc.	Ÿ
M	PCT	WO 94/04619	3/3/1994	General Electric	Υ
W	PCT .	WO 97/24364	7/10/1997	Georgetown University	Υ
M	ES ·	2 047 457	2/16/1994	Union Quimico Farma (ES)	N
W	PCT	WO 90/11283	10/4/1990	A/S GEA Farmaceutisk	Υ
M	CAN	CA 941377	2/15/1974	Piva-Pharmaceutical & Chemical	Ÿ

	OTHER DOCUMENTS (Including Author (In CAPS), Title, Publication Date, Pages, etc.)
M	Copending Application U.S. Serial No. 09/949,315, filed September 7, 2001, entitled "Aqueous Ink Compositions," by THOMAS W. SMITH et al.
M	Copending Application U.S. Serial No. 09/948,958, filed September 7, 2001, entitled "Phase Change Ink Compositions," by H. BRUCE GOODBRAND et al.
W)	Copending Application U.S. Serial No. (not yet assigned; Attorney Docket No. D/A1722), filed concurrently herewith, entitled "Alkylated Tetrakis(triaminotriazine) Compounds and Phase Change Inks Containing Same," by DANIELLE C. BOILS-BOISSIER et al.
M	Copending Application U.S. Serial No. (not yet assigned; Attorney Docket No. D/A2176), filed concurrently herewith, entitled "Guanidinopyrimidinone Compounds and Phase Change Inks Containing Same," by DANIELLE C. BOILS-BOISSIER et al.
M	Copending Application U.S. Serial No. (not yet assigned; Attorney Docket No. D/A2403), filed concurrently herewith, entitled "Phase Change Inks Containing Gelator Additives," by MARCEL P. BRETON et al.
M	English Abstract for German Patent Publication DE 4205713AL
M	English Abstract for German Patent Publication DE 4205636
W	R. P. SIJBESMA ET AL., "Reversible Polymers Formed from Self-Complementary Monomers Using Quadruple Hydrogen Bonding," <u>Science</u> , Vol. 278, p. 1601 (1997)
EXAMIN	IER V. Balasulvanan DATE CONSIDERED 5/1/05

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

APPLICATION NO. ATTY DOCKET NO. Form PTO-1449 Dept. of Commerce PATENT & TRADEMARK OFFICE D/A2177 10/235,109 INFORMATION DISCLOSURE STATEMENT APPLICANT (Use several sheets if necessary) Marcel P. Breton et al. FILING DATE **GROUP ART UNIT 2861** 9/4/2002 OTHER DOCUMENTS (Including Author (in CAPS), Title, Publication Date, Pages, etc.) R. DAGANI, "Supramolecular Polymers," Chemical and Engineering News, p. 4 (December 1997) J.H.K. HIRSCHBERG ET AL., "Supramolecular Polymers from Linear Telechelic Siloxanes with W Quadruple-Hydrogen-Bonded Units, Macromolecules, Vol. 32, p. 2696 (1999) A.C. GRIFFIN ET AL., "Design and Synthesis of 'Smart' Supramolecular Liquid Crystalline Polymers via Hydrogen-Bond Associations," PMSE Proceedings, Vol. 72, p. 172 (1995) ANDREW J. CARR ET AL., 'The Design of Organic Gelators: Solution and Solid State Properties of a Family of Bis-Ureas," Tetrahedron Letters, Vol. 39, p. 7447 (1998) RONALD F.M. LANGE ET AL., "Hydrogen-Bonded Supramolecular Polymer Networks," Journal of W Polymer Science, Part A: Polymer Chemistry, Vol. 37, p. 3657 (1999) ARNO KRAFT ET AL., "Combining Self-Assembly and Self-Association -- Towards Columnar M Supramolecular Structures in Solution and in Liquid-Crystalline Mesophase," Polym. Mater. Sci. Eng., Vol. 80, p. 18 (1999) Y, YUASA ET AL., "Facile Synthesis of β-Keto Esters from Methyl Acetoacetate and Acid Chloride: The M Barium Oxide/Methanol System, Organic Process Research and Development, Vol. 2, p. 412 (1998) F. HOOGESTEGER ET AL., "Self-Complementary Hydrogen Bonding of 1,1'-Bicyclohexylidene-4,4'- $\mathcal{M}$ dione Dioxime. Formation of a Non-Covalent Polymer, Tetrahedron, Vol. 52, No. 5, p. 1773 (1996) X. WANG ET AL., "Molecular Tectonics. Three-Dimensional Organic Networks with Zeolite Properties," W J. Am. Chem. Soc., Vol. 116, p. 12119 (1994) J. H. K. KY HIRSCHBERG ET AL., "Helical Self-Assembled Polymers from Cooperative Stacking of Hydrogen-Bonded Pairs," Nature, Vol. 407, p. 167 (2000) ABDULLAH ZAFAR ET AL., "New Supramolecular Arrays based on Interactions between Carboxylate IN and Urea Groups: Solid-State and Solution Behavior," New J. Chem., 1998, 137-141 J-L. POZZO ET AL., "The Unusual Molecular Organization of 2,3-Bis(n-hexyloxy)-anthracene in the Crystal. A Hint to the Origin of the Gelifying Properties of 2,3-Bis(n-alkyloxy)anthracenes?", J. Chem. Soc., Perkin Trans., 2, 824-826 (2001) D. ABDALLAH ET AL., 'The Quest for the Simplest Possible Organogelators and Some Properties of  $\mathcal{M}$ their Organogels," J. Braz. Chem. Soc., Vol. 11, No. 3, 209-218 (2000) F. PLACIN ET AL., "Organogel Electrolytes Based on a Low Molecular Weight Gelator: 2,3-Bis(ndecyloxy)anthracene," Chem. Mater. 13, 117-121 (2001) J. JUNG ET AL., "Novel Vesicular Aggregates of Crown-Appended Cholesterol Derivatives Which Act as Gelators of Organic Solvents and as Templates for Silica Transcription," J. Am. Chem. Soc., Vol. 122, No. 36, 8648-8653 (2000) D. ABDALLAH ET AL., "n-Alkanes Gel n-Alkanes (and Many Other Organic Liquids)," Langmuir, 16, 352-M P. TERECH ET AL., "Low Molecular Mass Gelators of Organic Liquids and the Properties of their Gels," M Chem. Rev., 97, 3133-3159 (1997) D. ABDALLAH ET AL., "Organogels and Low Molecular Mass Organic Gelators," Adv. Mater., 12, No. 17, F. SCHOONBEEK, "Making it All Stick Together: the Gelation of Organic Liquids by Small Organic Molecules," Doctoral Thesis, U. of Groningen, Netherlands, April 2001 TWIEG ET AL., "Observations of a "Gel" Phase in Binary Mixtures of Semifluorinated n-Alkanes with Hydrocarbon Liquids," Macromolecules, Vol. 18, p. 1361 (1985) M.F. SHOSTAKOVSKII ET AL., "Synthesis and Reactions of Polyhydric Alcohols I. Synthesis and Reactions of p-Toluenesulfonates of Polyhydric Alcohols," Zhurnal Obshchei Khimii, Vol. 35, No. 5, p. 804-807 (1965) J. ASHLEY ET AL., "The Chemotherapy of Schistosomiasis. Part I. Derivatives and Analogs of ow-Di-(paminophenoxy)alkanes," J. Chem. Soc. 1958, 3293

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DATE CONSIDERED

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Form PTC	PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. D/A2177	APPLICATION NO. 10/235,109			
	INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	APPLICANT  Marcel P. Breto	n et al.			
		FILING DATE 9/4/2002	GROUP ART UNIT 2861			
	OTHER DOCUMENTS (Including Auth	or (in CAPS), Title, Publication Date, Pages, e	stc.)			
M	G. CLAVIER ET AL., "Remarkably Simple S Tetrahedron Letters, 40, 9021-9024 (1999)	Small Organogelators: Di-n-alkoxy-be	nzene Derivatives,"			
^	G. MIEDEN-GUNDERT ET AL., "Rational D	esion of Low Molecular Mass Organ	ogelators: Toward a			
4)	Library of Functional N-Acyl-1-ω-Amino Acid (2001)	Derivatives," Angew. Chem. Int. Ed	<u>.</u> , <i>40</i> , No. 17, 3164-3166			
M	J-L. POZZO ET AL., "Rational Design of Ne pp. 2575-2577 (1998)					
M	J. T. THURSTON ET AL., "Cyanuric Chlorid Soc., Vol. 73, pp. 2981-3008 (1951)		• '			
W	HUCKIN ET AL., "Alkylation of Dianions of £ (1974)		ol. 96, pp. 1082-1087			
••• W)	J-L. Pozzo et al., Tetrahedron, Vol. 53, No.	•				
·W	J-L. POZZO ET AL., "Photochromic Guests (2000)	in Organogels," Mol. Cryst. Liq. Crys	<u>t.,</u> Vol. 344, pp. 101-106			
M	Y.C. LIN ET AL., Macromolecules, Vol. 20, p	• •				
M	MURATA ET AL, "Thermal and Light Contro Organic Gels. Novel Helical Aggregation M Microscopic Observation," J. Am. Chem. So	odes as Detected by Circular Dichro <u>c.,</u> Vol. 116, No 15, pp. 6664-6676 (	ism and Electron 1994)			
····M	A. IKEDA ET AL., Rep. Asahi Glass Found.	Ind. Technol., Vol. 61, p. 115, (1992	)			
M	RABOLT ET AL., <u>Macromolecules</u> , Vol. 17,	•				
•••(V)	D.J. ABDALLAH ET AL., Chem. Mater., Vol.					
W)	RALSTON ET AL., J. Org. Chem., Vol. 9, p.					
m	L. LU ET AL., "New lyotrophic Phases (therr related tertiary and quaternary ammonium h	alide salts," Chem. Commun., 1996,	e tertiary amines and p. 2029			
VM	J. PRAKT. Chem., Vol. 327 (3), pp. 383-98 (	(1985)				
W	B.L. FERINGA ET AL., J. Org. Chem., Vol. 5	•				
(M)	J.C. DEJONG ET AL., <u>Tetrahedron Lett.</u> , Vo					
••• (N)	J.C. DEJONG, Ph.D. thesis, University of Gi	•				
M	F. A. NEUGEBAUER ET AL., Chem. Ber., 1	•				
M	U. ZEHAVI ET AL., :The Reactions of Carb Org. Chem., Vol. 26, pp. 1097-1101 (1961)	obenzoxyamino Acid Amides with (	Carbonyl Compounds," <u>J.</u>			
W	J. MARCH, Advanced Organic Chemistry, 4 York 1992)	<sup>th</sup> Edition, pp. 903 and 1091-1092,	Wiley Interscience (New			
••• (M)	J. CROSSLEY MAXWELL, Aust. J. Chem., \	Vol. 47, pp. 723-738 (1994)	· · · · · · · · · · · · · · · · · · ·			
••• M	V.J. WOTRING ET AL., Analytical Chemistry	, Vol. 62, No. 14, pp. 1506-1510 (19	<del>(</del> 90)			
· W	Pyrophosphate Dianions of Nucleotides, S Chem. Soc., Vol. 103, pp. 6152-6157 (1981)	ium Cation Having a Rigid Structure Complementary to Selective Extraction and Transport of Nucleotides," <u>J. Am.</u> 1)				
W	T. GIORGI ET AL., "Gel-like lyomesophas ribbons," ChemistryA European Journal (20	ses formed in organic solvents by	self-assembled guanine			
*** 1	T. SUYAMAET AL., "A method for the pre		* Nippon Kagaku Kaishi			

\*\*\*These references will be sent a later date.

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Form PTO	1449 US Dept. of Commerce PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. D/A2177	T NO. APPLICATION NO. 10/235,1				
1	NFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	APPLICANT  Marcel P. Breton et al.					
	OTHER DOCUMENTS (Including Auti	or (in CAPS), Title, Publication	n Date, Pages, et	(a)			
•••\\	English abstract for Polish Patent Publication	on PL 148060 B1					
W	A English abstract for Polish Patent Publication PL 134682 B1						
••• M	C.S. SNIJDER ET AL., Chem. Eur. J., Vol.	<u> </u>		·			
••• W	S. SENDA ET AL., Gifu Coll. Pharm., Gifu,	Japan. <i>Yakugaku Zassl</i>	ni (1969), 89 (i	2), 254-259			
···· (M)	B. GLUNCIC ET AL, Acta Pharm. Jugosl. (	1986), 36(4), 393-404	••				
M	M. KLEIN, Recent Dev. Mass Spectrom. Bi 1977, 1, 471-82	ochem. Med., [Proc. Int.	Symp.], 4 <sup>th</sup> (1	978), Meeting Date			
M	English Abstract of Japanese Patent Public	ation JP 62181279					
W	T. WADA ET AL., "A New Boranophosphor Boranophosphates," Tetrahedron Letters, \	/ol. 43, No. 23, pp. 4137	-4140 (2002)	<u> </u>			
M	R. SCHIRRMACHER ET AL., "Dimethylpyridin-4-ylamine-catalysed alcoholysis of 2-amino-N,N,N-trimethyl-9H-purine-6-ylammonium chloride: An effective route to O6-substituted guanine derivatives from alcohols with poor nucleophilicity," Synthesis, Vol. 4, pp. 538-542 (2002)						
M	Z. SITU, "Synthesis of Tricyclic Derivatives Vol. 24, No. 1, p. 57 (2002)	of Guanine Analogue C	atalyzed by K	F-Al₂O₃," <i>Huaxue Shiji</i> ,			
••• V	Korean Patent 2000003081 (Korean Paten	t Application KR 1998-2	4185)				
3	S. BAILEY ET AL., "Synthesis and Antiviral Derivatives of Guanine and 8-Methylguanin (1994)						
M	English abstract for Japanese Patent Public	cation JP 06157529		• • •			
W	English abstract for Japanese Patent Public	cation JP 3217541	• .				
	M. R. HARNDEN ET AL., "Synthesis, Oral Selective Antiherpesvirus Agent 9-(3-Hydro Chemother., Vol. 5, No. 3, pp. 147-54 (199	xypropoxy)Guanine (BF 4)	RL44385)," <i>An</i>	itiviral,Chem.			
W	B. K. BHATTACHARYA ET AL., "Synthesis Chem., Vol. 30, No. 5, pp. 1341-9 (1993)		yl Purine Ana	logs," J. Heterocycl.			
M	English abstract for Polish Patent Publication	on PL 148969					
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<sup>\*\*\*</sup>These references will be sent a later date.

Form PT	<b>D-144</b>	PATENT & TRADEM		L of Commerce MARK OFFICE	ATTY DO	CKET NO. D/A2177D	APPLICATION NO.		
	INFO	ORMATIO (Use se	N DISCLOSURE STATEM veral sheets if necessary)	ENT .	APPLICANT Marcel P. Breton et a				
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W	,		20030079644	5/1/200	3.	Thomas W. Smith et al.	108	31.29	
m			20030105185	6/5/200	3	H. Bruce Goodbrand et al.	523	160	
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**EXAMINER** 

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M	G.N Sca	1. CLAV iles," <u>J.</u>	/IER ET AL., "Organog Mater. Chem., (2000),	elators for M 10, pp. 1725	laking Po 5-1730	rous Sol-Gel Derived Silic	a at Tw	vo Diff	erent	t Length
M	SAI N-A	LEH A	AHMED ET AL., "Multia D-amino Acid Units," An	addressable n. Chem. So	Self-Ass c., (2002	embling Organogelators B	ased o	on 2H-0	Chro	mene and
M	FR/ Tet	ANZ AL raradika	FRED NEUGEBAUER al," <u>Chem. Ber.,</u> (1976)	ET AL., "Tet 109, pp. 238	trakis[4-( 19-2394 (	3-tert-butyl-5-phenylverda: not translated)	zyl-1-yl	)phen	yl]me	ethan, in
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